

re-run

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/663,377  
Source: 1 Fw0  
Date Processed by STIC: 9/25/03

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 05/31/2005

PATENT APPLICATION: US/10/663,377

TIME: 11:11:20

Input Set : N:\AMC\US10663377.raw

Output Set: N:\CRF4\05312005\J663377.raw

```

1 <110> APPLICANT: Liang, Yanbin
2      Woodward, David F.
3 <120> TITLE OF INVENTION: HUMAN COX-1 ALTERNATIVELY SPLICED
4      VARIANTS AND METHODS OF USING SAME
5 <130> FILE REFERENCE: 66872-028 (AR5746)
6 <140> CURRENT APPLICATION NUMBER: US/10/663,377
7 <141> CURRENT FILING DATE: 2003-09-15
8 <160> NUMBER OF SEQ ID NOS: 38
9 <170> SOFTWARE: FastSEQ for Windows Version 4.0
11 <210> SEQ ID NO: 1
12 <211> LENGTH: 2022
13 <212> TYPE: DNA
14 <213> ORGANISM: Homo sapiens
15 <220> FEATURE:
16 <221> NAME/KEY: CDS
17 <222> LOCATION: (298)...(2022)
18 <400> SEQUENCE: 1
19      atgagccgga gtctcttgcg cgggttcttg ctgttctgcg tctgtctccc gccgctcccc 60
20      gtctgtctcg cggacccagg ggcgcccacg ccaggggcct ctttgggagg aagccgcagg 120
21      caccaaggga aatgagttcc ctttctccag cctctaaccg tctgggaacc catcctgatt 180
22      cccattgcca gtggagaagg tctcccctgg tgaagacttc gggagaacat gggagatgga 240
23      aatacattta ggagccggga tgcttcatct ggggtttaag agatcccat tgagcaa atg 300
24                                     Met
25                                     1
26      agg aaa ccg agg ctc atg aat ccc tgt tgt tac tat cca tgc cag cac 348
27      Arg Lys Pro Arg Leu Met Asn Pro Cys Cys Tyr Tyr Pro Cys Gln His
28          5          10          15
29      cag ggc atc tgt gtc cgc ttc ggc ctt gac cgc tac cag tgt gac tgc 396
30      Gln Gly Ile Cys Val Arg Phe Gly Leu Asp Arg Tyr Gln Cys Asp Cys
31          20          25          30
32      acc cgc acg ggc tat tcc ggc ccc aac tgc acc atc cct ggc ctg tgg 444
33      Thr Arg Thr Gly Tyr Ser Gly Pro Asn Cys Thr Ile Pro Gly Leu Trp
34          35          40          45
35      acc tgg ctc cgg aat tca ctg cgg ccc agc ccc tct ttc acc cac ttc 492
36      Thr Trp Leu Arg Asn Ser Leu Arg Pro Ser Pro Ser Phe Thr His Phe
37          50          55          60          65
38      ctg ctc act cac ggg cgc tgg ttc tgg gag ttt gtc aat gcc acc ttc 540
39      Leu Leu Thr His Gly Arg Trp Phe Trp Glu Phe Val Asn Ala Thr Phe
40          70          75          80
41      atc cga gag atg ctc atg cgc ctg gta ctc aca gtg cgc tcc aac ctt 588
42      Ile Arg Glu Met Leu Met Arg Leu Val Leu Thr Val Arg Ser Asn Leu
43          85          90          95
44      atc ccc agt ccc ccc acc tac aac tca gca cat gac tac atc agc tgg 636

```

## RAW SEQUENCE LISTING

DATE: 05/31/2005

PATENT APPLICATION: US/10/663,377

TIME: 11:11:20

Input Set : N:\AMC\US10663377.raw

Output Set: N:\CRF4\05312005\J663377.raw

45	Ile	Pro	Ser	Pro	Pro	Thr	Tyr	Asn	Ser	Ala	His	Asp	Tyr	Ile	Ser	Trp	
46			100					105					110				
47	gag	tct	ttc	tcc	aac	gtg	agc	tat	tac	act	cgt	att	ctg	ccc	tct	gtg	684
48	Glu	Ser	Phe	Ser	Asn	Val	Ser	Tyr	Tyr	Thr	Arg	Ile	Leu	Pro	Ser	Val	
49		115						120				125					
50	cct	aaa	gat	tgc	ccc	aca	cgc	atg	gga	acc	aaa	ggg	aag	aag	cag	ttg	732
51	Pro	Lys	Asp	Cys	Pro	Thr	Pro	Met	Gly	Thr	Lys	Gly	Lys	Lys	Gln	Leu	
52		130				135					140					145	
53	cca	gat	gcc	cag	ctc	ctg	gcc	cgc	cgc	ttc	ctg	ctc	agg	agg	aag	ttc	780
54	Pro	Asp	Ala	Gln	Leu	Leu	Ala	Arg	Arg	Phe	Leu	Leu	Arg	Arg	Lys	Phe	
55				150						155					160		
56	ata	cct	gac	ccc	caa	ggc	acc	aac	ctc	atg	ttt	gcc	ttc	ttt	gca	caa	828
57	Ile	Pro	Asp	Pro	Gln	Gly	Thr	Asn	Leu	Met	Phe	Ala	Phe	Phe	Ala	Gln	
58			165					170					175				
59	cac	ttc	acc	cac	cag	ttc	ttc	aaa	act	tct	ggc	aag	atg	ggg	cct	ggc	876
60	His	Phe	Thr	His	Gln	Phe	Phe	Lys	Thr	Ser	Gly	Lys	Met	Gly	Pro	Gly	
61			180					185					190				
62	ttc	acc	aag	gcc	ttg	ggc	cat	ggg	gta	gac	ctc	ggc	cac	att	tat	gga	924
63	Phe	Thr	Lys	Ala	Leu	Gly	His	Gly	Val	Asp	Leu	Gly	His	Ile	Tyr	Gly	
64		195					200					205					
65	gac	aat	ctg	gag	cgt	cag	tat	caa	ctg	cgg	ctc	ttt	aag	gat	ggg	aaa	972
66	Asp	Asn	Leu	Glu	Arg	Gln	Tyr	Gln	Leu	Arg	Leu	Phe	Lys	Asp	Gly	Lys	
67		210				215					220					225	
68	ctc	aag	tac	cag	gtg	ctg	gat	gga	gaa	atg	tac	ccg	ccc	tcg	gta	gaa	1020
69	Leu	Lys	Tyr	Gln	Val	Leu	Asp	Gly	Glu	Met	Tyr	Pro	Pro	Ser	Val	Glu	
70				230						235					240		
71	gag	gcg	cct	gtg	ttg	atg	cac	tac	ccc	cga	ggc	atc	ccg	ccc	cag	agc	1068
72	Glu	Ala	Pro	Val	Leu	Met	His	Tyr	Pro	Arg	Gly	Ile	Pro	Pro	Gln	Ser	
73			245					250					255				
74	cag	atg	gct	gtg	ggc	cag	gag	gtg	ttt	ggg	ctg	ctt	cct	ggg	ctc	atg	1116
75	Gln	Met	Ala	Val	Gly	Gln	Glu	Val	Phe	Gly	Leu	Leu	Pro	Gly	Leu	Met	
76			260					265					270				
77	ctg	tat	gcc	acg	ctc	tgg	cta	cgt	gag	cac	aac	cgt	gtg	tgt	gac	ctg	1164
78	Leu	Tyr	Ala	Thr	Leu	Trp	Leu	Arg	Glu	His	Asn	Arg	Val	Cys	Asp	Leu	
79		275					280					285					
80	ctg	aag	gct	gag	cac	ccc	acc	tgg	ggc	gat	gag	cag	ctt	ttc	cag	acg	1212
81	Leu	Lys	Ala	Glu	His	Pro	Thr	Trp	Gly	Asp	Glu	Gln	Leu	Phe	Gln	Thr	
82		290				295					300					305	
83	acc	cgc	ctc	atc	ctc	ata	ggg	gag	acc	atc	aag	att	gtc	atc	gag	gag	1260
84	Thr	Arg	Leu	Ile	Leu	Ile	Gly	Glu	Thr	Ile	Lys	Ile	Val	Ile	Glu	Glu	
85				310						315					320		
86	tac	gtg	cag	cag	ctg	agt	ggc	tat	ttc	ctg	cag	ctg	aaa	ttt	gac	cca	1308
87	Tyr	Val	Gln	Gln	Leu	Ser	Gly	Tyr	Phe	Leu	Gln	Leu	Lys	Phe	Asp	Pro	
88			325					330					335				
89	gag	ctg	ctg	ttc	ggg	gtc	cag	ttc	caa	tac	cgc	aac	cgc	att	gcc	atg	1356
90	Glu	Leu	Leu	Phe	Gly	Val	Gln	Phe	Gln	Tyr	Arg	Asn	Arg	Ile	Ala	Met	
91			340					345					350				
92	gag	ttc	aac	cat	ctc	tac	cac	tgg	cac	ccc	ctc	atg	cct	gac	tcc	ttc	1404
93	Glu	Phe	Asn	His	Leu	Tyr	His	Trp	His	Pro	Leu	Met	Pro	Asp	Ser	Phe	

## RAW SEQUENCE LISTING

DATE: 05/31/2005

PATENT APPLICATION: US/10/663,377

TIME: 11:11:20

Input Set : N:\AMC\US10663377.raw

Output Set: N:\CRF4\05312005\J663377.raw

```

94          355          360          365
95  aag gtg ggc tcc cag gag tac agc tac gag cag ttc ttg ttc aac acc 1452
96  Lys Val Gly Ser Gln Glu Tyr Ser Tyr Glu Gln Phe Leu Phe Asn Thr
97  370          375          380          385
98  tcc atg ttg gtg gac tat ggg gtt gag gcc ctg gtg gat gcc ttc tct 1500
99  Ser Met Leu Val Asp Tyr Gly Val Glu Ala Leu Val Asp Ala Phe Ser
100          390          395          400
101  cgc cag att gct ggc cgg atc ggt ggg ggc agg aac atg gac cac cac 1548
102  Arg Gln Ile Ala Gly Arg Ile Gly Gly Arg Asn Met Asp His His
103          405          410          415
104  atc ctg cat gtg gct gtg gat gtc atc agg gag tct cgg gag atg cgg 1596
105  Ile Leu His Val Ala Val Asp Val Ile Arg Glu Ser Arg Glu Met Arg
106          420          425          430
107  ctg cag ccc ttc aat gag tac cgc aag agg ttt ggc atg aaa ccc tac 1644
108  Leu Gln Pro Phe Asn Glu Tyr Arg Lys Arg Phe Gly Met Lys Pro Tyr
109          435          440          445
110  acc tcc ttc cag gag ctc gta gga gag aag gag atg gca gca gag ttg 1692
111  Thr Ser Phe Gln Glu Leu Val Gly Glu Lys Glu Met Ala Ala Glu Leu
112  450          455          460          465
113  gag gaa ttg tat gga gac att gat gcg ttg gag ttc tac cct gga ctg 1740
114  Glu Glu Leu Tyr Gly Asp Ile Asp Ala Leu Glu Phe Tyr Pro Gly Leu
115          470          475          480
116  ctt ctt gaa aag tgc cat cca aac tct atc ttt ggg gag agt atg ata 1788
117  Leu Leu Glu Lys Cys His Pro Asn Ser Ile Phe Gly Glu Ser Met Ile
118          485          490          495
119  gag att ggg gct ccc ttt tcc ctc aag ggt ctc cta ggg aat ccc atc 1836
120  Glu Ile Gly Ala Pro Phe Ser Leu Lys Gly Leu Leu Gly Asn Pro Ile
121          500          505          510
122  tgt tct ccg gag tac tgg aag ccg agc aca ttt ggc ggc gag gtg ggc 1884
123  Cys Ser Pro Glu Tyr Trp Lys Pro Ser Thr Phe Gly Gly Glu Val Gly
124          515          520          525
125  ttt aac att gtc aag acg gcc aca ctg aag aag ctg gtc tgc ctc aac 1932
126  Phe Asn Ile Val Lys Thr Ala Thr Leu Lys Lys Leu Val Cys Leu Asn
127  530          535          540          545
128  acc aag acc tgt ccc tac gtt tcc ttc cgt gtg ccg gat gcc agt cag 1980
129  Thr Lys Thr Cys Pro Tyr Val Ser Phe Arg Val Pro Asp Ala Ser Gln
130          550          555          560
131  gat gat ggg cct gct gtg gag cga cca tcc aca gag ctc tga 2022
132  Asp Asp Gly Pro Ala Val Glu Arg Pro Ser Thr Glu Leu *
133          565          570
135 <210> SEQ ID NO: 2
136 <211> LENGTH: 574
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 2
140  Met Arg Lys Pro Arg Leu Met Asn Pro Cys Cys Tyr Tyr Pro Cys Gln
141      1          5          10          15
142  His Gln Gly Ile Cys Val Arg Phe Gly Leu Asp Arg Tyr Gln Cys Asp
143      20          25          30

```

## RAW SEQUENCE LISTING

DATE: 05/31/2005

PATENT APPLICATION: US/10/663,377

TIME: 11:11:20

Input Set : N:\AMC\US10663377.raw

Output Set: N:\CRF4\05312005\J663377.raw

```

144   Cys Thr Arg Thr Gly Tyr Ser Gly Pro Asn Cys Thr Ile Pro Gly Leu
145           35                     40                     45
146   Trp Thr Trp Leu Arg Asn Ser Leu Arg Pro Ser Pro Ser Phe Thr His
147           50                     55                     60
148   Phe Leu Leu Thr His Gly Arg Trp Phe Trp Glu Phe Val Asn Ala Thr
149           65                     70                     75                     80
150   Phe Ile Arg Glu Met Leu Met Arg Leu Val Leu Thr Val Arg Ser Asn
151           85                     90                     95
152   Leu Ile Pro Ser Pro Pro Thr Tyr Asn Ser Ala His Asp Tyr Ile Ser
153           100                    105                    110
154   Trp Glu Ser Phe Ser Asn Val Ser Tyr Tyr Thr Arg Ile Leu Pro Ser
155           115                    120                    125
156   Val Pro Lys Asp Cys Pro Thr Pro Met Gly Thr Lys Gly Lys Lys Gln
157           130                    135                    140
158   Leu Pro Asp Ala Gln Leu Leu Ala Arg Arg Phe Leu Leu Arg Arg Lys
159           145                    150                    155                    160
160   Phe Ile Pro Asp Pro Gln Gly Thr Asn Leu Met Phe Ala Phe Phe Ala
161           165                    170                    175
162   Gln His Phe Thr His Gln Phe Phe Lys Thr Ser Gly Lys Met Gly Pro
163           180                    185                    190
164   Gly Phe Thr Lys Ala Leu Gly His Gly Val Asp Leu Gly His Ile Tyr
165           195                    200                    205
166   Gly Asp Asn Leu Glu Arg Gln Tyr Gln Leu Arg Leu Phe Lys Asp Gly
167           210                    215                    220
168   Lys Leu Lys Tyr Gln Val Leu Asp Gly Glu Met Tyr Pro Pro Ser Val
169           225                    230                    235                    240
170   Glu Glu Ala Pro Val Leu Met His Tyr Pro Arg Gly Ile Pro Pro Gln
171           245                    250                    255
172   Ser Gln Met Ala Val Gly Gln Glu Val Phe Gly Leu Leu Pro Gly Leu
173           260                    265                    270
174   Met Leu Tyr Ala Thr Leu Trp Leu Arg Glu His Asn Arg Val Cys Asp
175           275                    280                    285
176   Leu Leu Lys Ala Glu His Pro Thr Trp Gly Asp Glu Gln Leu Phe Gln
177           290                    295                    300
178   Thr Thr Arg Leu Ile Leu Ile Gly Glu Thr Ile Lys Ile Val Ile Glu
179           305                    310                    315                    320
180   Glu Tyr Val Gln Gln Leu Ser Gly Tyr Phe Leu Gln Leu Lys Phe Asp
181           325                    330                    335
182   Pro Glu Leu Leu Phe Gly Val Gln Phe Gln Tyr Arg Asn Arg Ile Ala
183           340                    345                    350
184   Met Glu Phe Asn His Leu Tyr His Trp His Pro Leu Met Pro Asp Ser
185           355                    360                    365
186   Phe Lys Val Gly Ser Gln Glu Tyr Ser Tyr Glu Gln Phe Leu Phe Asn
187           370                    375                    380
188   Thr Ser Met Leu Val Asp Tyr Gly Val Glu Ala Leu Val Asp Ala Phe
189           385                    390                    395                    400
190   Ser Arg Gln Ile Ala Gly Arg Ile Gly Gly Gly Arg Asn Met Asp His
191           405                    410                    415
192   His Ile Leu His Val Ala Val Asp Val Ile Arg Glu Ser Arg Glu Met

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/663,377

DATE: 05/31/2005

TIME: 11:11:20

Input Set : N:\AMC\US10663377.raw

Output Set: N:\CRF4\05312005\J663377.raw

```

193          420          425          430
194 Arg Leu Gln Pro Phe Asn Glu Tyr Arg Lys Arg Phe Gly Met Lys Pro
195          435          440          445
196 Tyr Thr Ser Phe Gln Glu Leu Val Gly Glu Lys Glu Met Ala Ala Glu
197          450          455          460
198 Leu Glu Glu Leu Tyr Gly Asp Ile Asp Ala Leu Glu Phe Tyr Pro Gly
199 465          470          475          480
200 Leu Leu Leu Glu Lys Cys His Pro Asn Ser Ile Phe Gly Glu Ser Met
201          485          490          495
202 Ile Glu Ile Gly Ala Pro Phe Ser Leu Lys Gly Leu Leu Gly Asn Pro
203          500          505          510
204 Ile Cys Ser Pro Glu Tyr Trp Lys Pro Ser Thr Phe Gly Gly Glu Val
205          515          520          525
206 Gly Phe Asn Ile Val Lys Thr Ala Thr Leu Lys Lys Leu Val Cys Leu
207          530          535          540
208 Asn Thr Lys Thr Cys Pro Tyr Val Ser Phe Arg Val Pro Asp Ala Ser
209 545          550          555          560
210 Gln Asp Asp Gly Pro Ala Val Glu Arg Pro Ser Thr Glu Leu
211          565          570
213 <210> SEQ ID NO: 3
214 <211> LENGTH: 1818
215 <212> TYPE: DNA
216 <213> ORGANISM: Homo sapiens
217 <220> FEATURE:
218 <221> NAME/KEY: CDS
219 <222> LOCATION: (298)...(1620)
220 <400> SEQUENCE: 3
221 atgagccgga gtctcttgc cgggttcttg ctgttctgc tctgtctccc gccgtctccc 60
222 gtctgtctcg cggacccagg ggcgcccacg ccaggggcct ctttgggagg aagccgcagg 120
223 caccaaggga aatgagttcc ctttctccag cctctaaccg tctgggaacc catcctgatt 180
224 cccattgcca gtggagaagg tctccccctg tgaagacttc gggagaacat gggagatgga 240
225 aatacattta ggagccggga tgcttcatct ggggtttaag agatcccat tgagcaa atg 300
226 Met
227 1
228 agg aaa ccg agg ctc agg aag aag cag ttg oca gat gcc cag ctc ctg 348
229 Arg Lys Pro Arg Leu Arg Lys Lys Gln Leu Pro Asp Ala Gln Leu Leu
230          5          10          15
231 gcc cgc cgc ttc ctg ctc agg agg aag ttc ata cct gac ccc caa ggc 396
232 Ala Arg Arg Phe Leu Leu Arg Arg Lys Phe Ile Pro Asp Pro Gln Gly
233          20          25          30
234 acc aac ctc atg ttt gcc ttc ttt gca caa cac ttc acc cac cag ttc 444
235 Thr Asn Leu Met Phe Ala Phe Phe Ala Gln His Phe Thr His Gln Phe
236          35          40          45
237 ttc aaa act tct ggc aag atg ggt cct ggc ttc acc aag gcc ttg ggc 492
238 Phe Lys Thr Ser Gly Lys Met Gly Pro Gly Phe Thr Lys Ala Leu Gly
239          50          55          60          65
240 cat ggg gta gac ctc ggc cac att tat gga gac aat ctg gag cgt cag 540
241 His Gly Val Asp Leu Gly His Ile Tyr Gly Asp Asn Leu Glu Arg Gln
242          70          75          80

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/663,377

DATE: 05/31/2005

TIME: 11:11:21

Input Set : N:\AMC\US10663377.raw

Output Set: N:\CRF4\05312005\J663377.raw